

Jonas I. Goldsmith 05/03/16

JONAS I. GOLDSMITH
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Bryn Mawr College
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PROFESSIONAL EXPERIENCE (cont.)

Graduate Research Assistant

PUBLICATIONS SINCE BEGINNING AT BRYN MAWR

Klein, S. J.; Burgmayer, S. J. N; Goldsmith, J. I. "Synthesis, characterization and binding

PUBLICATIONS PRIOR TO BEGINNING AT BRYN MAWR

13. Goldsmith, J.I.; Hudson, W.R.; Lowry, M.S.; Bernhard, S. "Discovery and High-Throughput Screening of Heteroleptic Iridium Complexes for Photo-Induced Hydrogen Production." *J. Am. Chem. Soc.*, **2005**, *127(20)*, 7502-10.
12. Sydora, O.L.; Goldsmith, J.I.; Vaid, T. P.; Miller, A. E.; Wolczanski, P. T.; and(y)20 (.S)-4 (.)-2 nski

PUBLICATIONS PRIOR TO BEGINNING AT BRYN MAWR(cont.)

2. Pasternack, R.F.; Goldsmith, J.I.; Szep, S.; Gibbs, E.J. "A Spectroscopic and Thermodynamic Study of Porphyrin/DNA Supramolecular Assemblies." *Biophys.J.*, **1998**, 75, 1024-31.
1. Potter, T.L.; Fagerson, I.S.; Goldsmith, J.I. "Mysteries of Maple Syrup Flavor." *Maple Syrup Digest*, **1995**, 7A (2), 9-13.

PRESENTATIONS SINCE BEGINNING AT BRYN MAWR

“Synthesis, Electrochemistry and Utilization as Light Harvesting Catalysts of Ruthenium and Iridium Complexes Containing Multiple Metal Centers.” Ryan J. Fealy and Jonas I. Goldsmith. Oral presentation by Ryan Fealy at the 244th National Meeting of the American Chemical Society, Philadelphia, PA August 22th 2012.

“Synthesis and Characterization of a Novel Pyrene-terminated Ruthenium Polypyridyl Complex that Mediates the Photocleavage of DNA.” Samantha K. Jones, Sharon N.

PRESENTATIONS SINCE BEGINNING AT BRYN MAWR (cont.)

GRANTS AND AWARDS

Designing Materials to Revolutionize and Engineer our Future Grant (DMREF) (co-PI) (\$141,000) National Science Foundation “Collaborative Research: Light-Rechargeable Electrical Energy Storage Devices via Redox-Gradient Assemblies”	Pending
HHMI New Directions Grant (\$17445) Bryn Mawr College, Bryn Mawr, PA Awarded by the HHMI Award Committee for investigating the kinetics of photocatalytic water reduction by experimental and computational techniques.	2014-2016
Faculty Research Grant (\$3500) Bryn Mawr College, Bryn Mawr, PA Awarded by the Committee on Faculty Awards and Grants for investigating the use of macromolecular iridium-based photosensitizers for the reduction of water to hydrogen.	2012-2013
Major Research Instrumentation Grant (co-PI) (\$263,900) National Science Foundation “400 MHz NMR Acquisition”	2010-2013
Faculty Research Grant (\$4900) Bryn Mawr College, Bryn Mawr, PA Awarded by the Committee on Faculty Awards and Grants for developing methodologies to conduct electrochemical experiments at edge-plane pyrolytic graphite surfaces.	2009-2010
Type G Starter Grant (\$40,000) Petroleum Research Fund of the American Chemical Society “Rational Self Assembly of Macromolecular Arrays for Optimized Light Harvesting and Photocatalytic Hydrogen Production”	2007-2011
Faculty Research Grant (\$3746) Bryn Mawr College, Bryn Mawr, PA Awarded by the Committee on Faculty Awards and Grants for the construction of a multi-well apparatus to examine the photocatalytic reduction of water to hydrogen.	2007-2008
PCNMCG Instrument Grant (\$9,000) Pittsburgh Conference National Memorial College Grant Program Grant for the purchase of a bipotentiostat and rotating ring-disc electrodes	June 2006
Faculty Start-up Award (\$30,000) Camille and Henry Dreyfus Foundation “Non-covalent functionalization of single-walled carbon nanotubes via molecular interfaces based on polypyridyl transition metal complexes”	2005-2011

GRANTS AND AWARDS (cont.)

Faculty Research Grant

May 2003

Hobart and William Smith Colleges, Geneva, NY

Awarded by the Committee on Faculty Research and the Provost to support research on electron transfer in linear macromolecular transition metal complexes

Wentink Outstanding Graduate Student Award

April 2002

Department of Chemistry and Chemical Biology, Cornell University, Ithaca, NY

Awarded to graduate students who have distinguished themselves both academically and in the quality and quantity of their research

Stanley Adamson Prize in Chemistry

May 1995

Department of Chemistry, Swarthmore College, Swarthmore, PA

Awarded to the outstanding junior in the Chemistry Department

PROFESSIONAL ORGANIZATIONS

- American Chemical Society

COURSES TAUGHT

- **CHEM 101** Chemistry Fundamentals
- **CHEM 103** General Chemistry I
- **CHEM 104** General Chemistry II
- **CHEM 206** Science of Renewable Energy
- **CHEM 222** Physical Chemistry II
- **CHEM 251** Research Methodology I
- **CHEM 252** Research Methodology II
- **CHEM 321/521** Advanced Physical Chemistry: Topics in Nanoscience
- **CHEM 321/521** Advanced Physical Chemistry: Inorganic Photochemistry
- **ENVS 397** Senior Seminar in Environmental Studies

SERVICE ACTIVITIES AT BRYN MAWR

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|---|----------------|
| • Physical Chemist Search Committee (Haverford College) | 2005 |
| • Science Node Representative | 2005-2009 |
| • Chemistry Colloquium Coordinator | 2005, -09, -11 |
| • Director of Graduate Studies in Chemistry | 2006, -13, -15 |
| • Chemistry Representative to Environmental Studies Concentration | 2006-present |
| • Committee on Libraries, Information Services and Computing | 2007-10 |
| • Physical Chemist Search Committee (Haverford College) | 2007 |
| • Volunteer Advisor for first year students | 2007 - present |
| • Physicist Search Committee (Bryn Mawr College) | 2009 |
| • Bucher-Jackson Postdoctoral Fellowship Search Committee | 2010 |
| • Organic Chemist Search Committee (Bryn Mawr College) | 2010 |
| • Chemistry Placement Exam Coordinator | 2011-13 |
| • Faculty Representative to the Task Force on the Competitive Position
of the College (Market Position Subcommittee) | 2011 |
| • Committee on Academic Priorities Working Group on Faculty Workload | 2011 |
| • Gates/NGLC Blended Learning Grant Participant | 2011-12 |
| • Organic Chemist Search Committee (Bryn Mawr College) | 2011 |
| • Premedical Curriculum Working Group | 2012 |
| • Biochemist Search Committee – Chair (Bryn Mawr College) | 2012 |
| • Faculty Advisor (pilot program) to first year students | 2012-2014 |
| • Athletic Department Faculty Fellow | 2013-present |
| • Ad hoc Committee on Faculty Advising | 2013 |
| • General Chemistry Lab Instructor Search Committee (Bryn Mawr College) | 2014 |
| • Representative to the Administrative Board of the Academic Honor System | 2015-2018 |
| • Quantitative Steering Committee | 2015-present |
| • Committee on Academic Priorities | 2015-2019 |
| • General Chemistry Lab Instructor Search Committee (Bryn Mawr College) | 2015 |
| • Field Hockey Head Coach Search Committee (Bryn Mawr College) | 2016 |

SERVICE TO THE PROFESSION

- Textbook Reviewer for Academic Press
- Reviewer for the *Journal of Electroanalytical Chemistry*

2005

2005-present